

L Number	Hits	Search Text	DB	Time stamp
1	0	7,7-diphenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	2004/03/17 12:04
2	0	(Histone adj deacetylase) and (("562/495").CCLS.)	USPAT; EPO; JPO; DERWENT	2004/03/17 12:04
3	0	("17 and 117").PN.	USPAT; EPO; JPO; DERWENT	2004/03/17 12:04
4	0	heptatrieno\$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	2004/03/17 12:04
5	0	heptatrien\$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	2004/03/17 12:04
6	0	(dodecen\$ and insecticid\$) and "2005271"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 12:04
7	265	(514/559).CCLS.	USPAT; EPO; JPO; DERWENT	2004/03/17 12:04
8	825	(514/562).CCLS.	USPAT; EPO; JPO; DERWENT	2004/03/17 12:04
9	384	(514/564).CCLS.	USPAT; EPO; JPO; DERWENT	2004/03/17 12:04
10	663	(514/570).CCLS.	USPAT; EPO; JPO; DERWENT	2004/03/17 12:04
12	161	(514/571).CCLS.	USPAT; EPO; JPO; DERWENT	2004/03/17 12:04
11	2	53101527.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 12:05
13	356	Histone adj deacetylase	USPAT; EPO; JPO; DERWENT	2004/03/17 12:05
14	5488	hydroxamic	USPAT; EPO; JPO; DERWENT	2004/03/17 12:07
15	3284	histone	USPAT; EPO; JPO; DERWENT	2004/03/17 12:09
16	1	heptatrienoic and histone	USPAT; EPO; JPO; DERWENT	2004/03/17 12:09
17	1	7-phenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	2004/03/17 12:09
18	65	heptatrieno\$	USPAT; EPO; JPO; DERWENT	2004/03/17 12:09
19	1	histone and heptatrieno\$	USPAT; EPO; JPO; DERWENT	2004/03/17 12:09
20	539	heptatrien\$	USPAT; EPO; JPO; DERWENT	2004/03/17 12:09
21	24	(Histone adj deacetylase) and hydroxamic	USPAT; EPO; JPO; DERWENT	2004/03/17 12:09
22	3	2001038322.pn.	USPAT; EPO; JPO; DERWENT	2004/03/17 12:09
23	3	9814424.pn.	USPAT; EPO; JPO; DERWENT	2004/03/17 12:09

24	167	(562/491).CCLS.	USPAT; EPO; JPO; DERWENT	2004/03/17 12:09
25	42	heptatrienoic	USPAT; EPO; JPO; DERWENT	2004/03/17 12:09
26	2	7-phenyl-2,4,6-heptatrieno\$	USPAT; EPO; JPO; DERWENT	2004/03/17 12:09
27	2	5037813.pn.	USPAT; EPO; JPO; DERWENT	2004/03/17 12:09
28	230	(562/495).CCLS.	USPAT; EPO; JPO; DERWENT	2004/03/17 12:09
29	2	4371516.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 12:09
30	2	4371516.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 12:09
31	14044	dodecen\$	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 12:11
32	68253	insecticid\$	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 12:12
33	408	dodecen\$ and insecticid\$	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 12:13
34	15	"2005271"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 12:13
35	2	5747537.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 12:13
36	3	9929640.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 12:13
37	2	53101527.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 12:13
38	2	9827162.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 12:13
39	2	4810299.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 12:13
40	2	4621099.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 12:13
41	1	4621099.URPN.	USPAT	2004/03/17 12:13

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
1	BRS	L1	0	7,7-diphenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	2004/03/17 12:04		
2	BRS	L2	0	(Histone adj deacetylase) and (("562/495").CCLS.)	USPAT; EPO; JPO; DERWENT	2004/03/17 12:04		
3	IS&R	L3	0	("17 and 117").PN.	USPAT; EPO; JPO; DERWENT	2004/03/17 12:04		
4	BRS	L4	0	heptatrieno\$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	2004/03/17 12:04		
5	BRS	L5	0	heptatrien\$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	2004/03/17 12:04		
6	BRS	L6	0	(dodecen\$ and insecticid\$) and "2005271"	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/03/17 12:04		
7	IS&R	L7	265	(514/559).CCLS.	USPAT; EPO; JPO; DERWENT	2004/03/17 12:04		
8	IS&R	L8	825	(514/562).CCLS.	USPAT; EPO; JPO; DERWENT	2004/03/17 12:04		
9	IS&R	L9	384	(514/564).CCLS.	USPAT; EPO; JPO; DERWENT	2004/03/17 12:04		
10	IS&R	L10	663	(514/570).CCLS.	USPAT; EPO; JPO; DERWENT	2004/03/17 12:04		

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3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
11	IS&R	L12	161	(514/571).CCLS.	USPAT ; EPO; JPO; DERWE NT	2004/03/17 12:04		
12	BRS	L11	2	53101527.pn.	USPAT ; US-PG PUB; EPO; JPO; DERWE NT	2004/03/17 12:05		
13	BRS	L13	356	Histone adj deacetylase	USPAT ; EPO; JPO; DERWE NT	2004/03/17 12:05		
14	BRS	L14	5488	hydroxamic	USPAT ; EPO; JPO; DERWE NT	2004/03/17 12:07		
15	BRS	L15	3284	histone	USPAT ; EPO; JPO; DERWE NT	2004/03/17 12:09		
16	BRS	L16	1	heptatrienoic and histone	USPAT ; EPO; JPO; DERWE NT	2004/03/17 12:09		
17	BRS	L17	1	7-phenyl-2,4,6-heptatrien oic	USPAT ; EPO; JPO; DERWE NT	2004/03/17 12:09		
18	BRS	L18	65	heptatrieno\$	USPAT ; EPO; JPO; DERWE NT	2004/03/17 12:09		
19	BRS	L19	1	histone and heptatrieno\$	USPAT ; EPO; JPO; DERWE NT	2004/03/17 12:09		
20	BRS	L20	539	heptatrien\$	USPAT ; EPO; JPO; DERWE NT	2004/03/17 12:09		

	Err ors
11	0
12	0
13	0
14	0
15	0
16	0
17	0
18	0
19	0
20	0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
21	BRS	L21	24	(Histone adj deacetylase) and hydroxamic	USPAT; EPO; JPO; DERWE NT	2004/03/17 12:09		
22	BRS	L22	3	2001038322.pn.	USPAT; EPO; JPO; DERWE NT	2004/03/17 12:09		
23	BRS	L23	3	9814424.pn.	USPAT; EPO; JPO; DERWE NT	2004/03/17 12:09		
24	IS&R	L24	167	(562/491).CCLS.	USPAT; EPO; JPO; DERWE NT	2004/03/17 12:09		
25	BRS	L25	42	heptatrienoic	USPAT; EPO; JPO; DERWE NT	2004/03/17 12:09		
26	BRS	L26	2	7-phenyl-2,4,6-heptatrien o\$	USPAT; EPO; JPO; DERWE NT	2004/03/17 12:09		
27	BRS	L27	2	5037813.pn.	USPAT; EPO; JPO; DERWE NT	2004/03/17 12:09		
28	IS&R	L28	230	(562/495).CCLS.	USPAT; EPO; JPO; DERWE NT	2004/03/17 12:09		
29	BRS	L29	2	4371516.pn.	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2004/03/17 12:09		

	Err ors
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22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	0



	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
30	BRS	L30	2	4371516.pn.	USPAT ; US-PG PUB; EPO; JPO; DERWE NT	2004/03/17 12:09		
31	BRS	L31	14044	dodecen\$	USPAT ; US-PG PUB; EPO; JPO; DERWE NT	2004/03/17 12:11		
32	BRS	L32	68253	insecticid\$	USPAT ; US-PG PUB; EPO; JPO; DERWE NT	2004/03/17 12:12		
33	BRS	L33	408	dodecen\$ and insecticid\$	USPAT ; US-PG PUB; EPO; JPO; DERWE NT	2004/03/17 12:13		
34	BRS	L34	15	"2005271"	USPAT ; US-PG PUB; EPO; JPO; DERWE NT	2004/03/17 12:13		
35	BRS	L35	2	5747537.pn.	USPAT ; US-PG PUB; EPO; JPO; DERWE NT	2004/03/17 12:13		
36	BRS	L36	3	9929640.pn.	USPAT ; US-PG PUB; EPO; JPO; DERWE NT	2004/03/17 12:13		

	Err ors
30	0
31	0
32	0
33	0
34	0
35	0
36	0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
37	BRS	L37	2	53101527.pn.	USPAT ; US-PG PUB; EPO; JPO; DERWE NT	2004/03/17 12:13		
38	BRS	L38	2	9827162.pn.	USPAT ; US-PG PUB; EPO; JPO; DERWE NT	2004/03/17 12:13		
39	BRS	L39	2	4810299.pn.	USPAT ; US-PG PUB; EPO; JPO; DERWE NT	2004/03/17 12:13		
40	BRS	L40	2	4621099.pn.	USPAT ; US-PG PUB; EPO; JPO; DERWE NT	2004/03/17 12:13		
41	BRS	L41	1	4621099.URPN.	USPAT	2004/03/17 12:13		

	Err ors
37	0
38	0
39	0
40	0
41	0

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LOGINID:SSSPTA1623PAZ

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 09	CA/CAPLUS records now contain indexing from 1907 to the present
NEWS	4	DEC 08	INPADOC: Legal Status data reloaded
NEWS	5	SEP 29	DISSABS now available on STN
NEWS	6	OCT 10	PCTFULL: Two new display fields added
NEWS	7	OCT 21	BIOSIS file reloaded and enhanced
NEWS	8	OCT 28	BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS	9	NOV 24	MSDS-CCOHS file reloaded
NEWS	10	DEC 08	CABA reloaded with left truncation
NEWS	11	DEC 08	IMS file names changed
NEWS	12	DEC 09	Experimental property data collected by CAS now available in REGISTRY
NEWS	13	DEC 09	STN Entry Date available for display in REGISTRY and CA/CAPLUS
NEWS	14	DEC 17	DGENE: Two new display fields added
NEWS	15	DEC 18	BIOTECHNO no longer updated
NEWS	16	DEC 19	CROPU no longer updated; subscriber discount no longer available
NEWS	17	DEC 22	Additional INPI reactions and pre-1907 documents added to CAS databases
NEWS	18	DEC 22	IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS	19	DEC 22	ABI-INFORM now available on STN
NEWS	20	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS	21	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAPLUS
NEWS	22	FEB 05	German (DE) application and patent publication number format changes
NEWS	23	MAR 03	MEDLINE and LMEDLINE reloaded
NEWS	24	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	25	MAR 03	FRANCEPAT now available on STN
NEWS	EXPRESS		MARCH 5 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
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NEWS	INTER		General Internet Information
NEWS	LOGIN		Welcome Banner and News Items
NEWS	PHONE		Direct Dial and Telecommunication Network Access to STN
NEWS	WWW		CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 11:36:12 ON 17 MAR 2004

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 11:36:22 ON 17 MAR 2004

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STRUCTURE FILE UPDATES: 16 MAR 2004 HIGHEST RN 663883-43-0

DICTIONARY FILE UPDATES: 16 MAR 2004 HIGHEST RN 663883-43-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> e 2,4,10,12-Tridecatetraenoic acid, 13-phenyl-/cn

E1 1 2,4,10,12-TRIDECATETRAENAMIDE, N-(2-METHYLPROPYL)-13-PHENYL-, (ALL-E)-/CN  
E2 1 2,4,10,12-TRIDECATETRAENAMIDE, N-(2-METHYLPROPYL)-13-PHENYL-, (E,E,E,Z)-/CN  
E3 0 --> 2,4,10,12-TRIDECATETRAENOIC ACID, 13-PHENYL-/CN  
E4 1 2,4,10,12-TRIDECATETRAENOIC ACID, 13-PHENYL-, (ALL-E)-/CN  
E5 1 2,4,10,12-TRIDECATETRAENOIC ACID, 13-PHENYL-, ETHYL ESTER, (ALL-E)-/CN  
E6 1 2,4,10,13,16,19-HEXAOXA-3-PHOSPHATRICYCLO(18.3.1.15,9)PENTACOSA-1(24),5,7,9(25),20,22-HEXAENE, 3-METHYL-, 3-OXIDE/CN  
E7 1 2,4,10,13,16,19-HEXAOXA-3-PHOSPHATRICYCLO(18.3.1.15,9)PENTACOSA-1(24),5,7,9(25),20,22-HEXAENE, 3-PHENYL-, 3-OXIDE/CN  
E8 1 2,4,10,13,16,19-HEXAOXA-3-PHOSPHATRICYCLO(18.3.1.15,9)PENTACOSANE/CN  
E9 1 2,4,10,13,16,19-HEXAOXADISPIRO(5.1.12.2)DOCOSANE/CN  
E10 1 2,4,10,13,16,19-HEXAOXADISPIRO(5.1.12.2)DOCOSANE, 3-PHENYL-/CN  
E11 1 2,4,10,13-TETRAAZAPENTADEC-2,14-DIENOIC ACID, 15-(4-(ACETOXY)PHENYL)-3-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-8,9,12-TRIOXO-, 1,1-DIMETHYLETHYL ESTER, (14E)-/CN  
E12 1 2,4,10,13-TETRAAZAPENTADEC-2,14-DIENOIC ACID, 15-(4-(ACETOXY)PHENYL)-3-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-8-HYDROXY-9,12-DIOXO-, 1,1-DIMETHYLETHYL ESTER, (14E)-/CN

=> e4

L1 1 "2,4,10,12-TRIDECATETRAENOIC ACID, 13-PHENYL-, (ALL-E)-"/CN

=> d l1

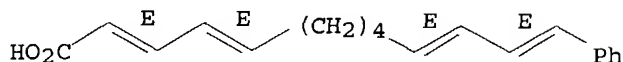
L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 177555-33-8 REGISTRY

CN 2,4,10,12-Tridecatetraenoic acid, 13-phenyl-, (all-E)- (9CI)

(CA INDEX NAME)  
FS STEREOSEARCH  
MF C19 H22 O2  
SR CA  
LC STN Files: CA, CAPLUS

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
6.62	6.83

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 11:36:58 ON 17 MAR 2004  
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FILE COVERS 1907 - 17 Mar 2004 VOL 140 ISS 12  
FILE LAST UPDATED: 16 Mar 2004 (20040316/ED)

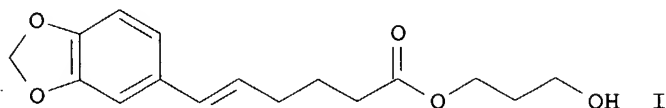
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> 11  
L2 1 L1

=> d l2 ti fbib abs

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Expedient synthesis of unsaturated amide alkaloids from Piper spp:  
exploring the scope of recent methodology  
AN 1996:263930 CAPLUS  
DN 125:33919  
TI Expedient synthesis of unsaturated amide alkaloids from Piper spp:  
exploring the scope of recent methodology  
AU Strunz, George M.; Finlay, Heather J.  
CS Canadian Forest Service-Maritimes Region, Fredericton, NB, E3B 5P7, Can.  
SO Canadian Journal of Chemistry (1996), 74(3), 419-32  
CODEN: CJCHAG; ISSN: 0008-4042

PB National Research Council of Canada  
 DT Journal  
 LA English  
 OS CASREACT 125:33919  
 GI



AB The Sakai aryl aldehyde-cyclic ketone aldol-Grob fragmentation sequence was extended to cinnamaldehyde and cyclohexanone, and the product was elaborated to analogs of the alkaloid piperstachine. The effects of substituents on the reaction involving cinnamaldehyde were studied. The aldol-fragmentation sequence failed with benzaldehyde when cyclooctanone or cyclobutanone was substituted for cyclohexanone or cyclopentanone, and the reasons for this failure were examined. Four-carbon Wittig homologation of the piperonal-cyclobutanone aldol-fragmentation product, a hypothetical route to alkaloids such as retrofractamide A, was thus not viable. Instead, three-carbon homologation of the readily available piperonal-cyclopentanone product (I), previously prepared from piperonal, cyclopentanone and 1,3-propanediol in Et<sub>2</sub>O.BF<sub>3</sub>, afforded these alkaloids in excellent overall yield. Isomerization of alkynes to conjugated dienes was also used to effect efficient syntheses of pellitorine and several other non-aromatic 2E,4E-dienoic Piper amide alkaloids.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	3.42	10.25
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.69	-0.69

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 11:38:17 ON 17 MAR 2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*

SESSION RESUMED IN FILE 'CAPLUS' AT 11:50:59 ON 17 MAR 2004

FILE 'CAPLUS' ENTERED AT 11:50:59 ON 17 MAR 2004

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	3.42	10.25
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL



CA SUBSCRIBER PRICE	ENTRY -0.69	SESSION -0.69
=> file reg		
COST IN U.S. DOLLARS	SINCE FILE ENTRY 3.42	TOTAL SESSION 10.25
FULL ESTIMATED COST		
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY -0.69	TOTAL SESSION -0.69
CA SUBSCRIBER PRICE		

FILE 'REGISTRY' ENTERED AT 11:51:11 ON 17 MAR 2004  
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STRUCTURE FILE UPDATES: 16 MAR 2004 HIGHEST RN 663883-43-0  
 DICTIONARY FILE UPDATES: 16 MAR 2004 HIGHEST RN 663883-43-0

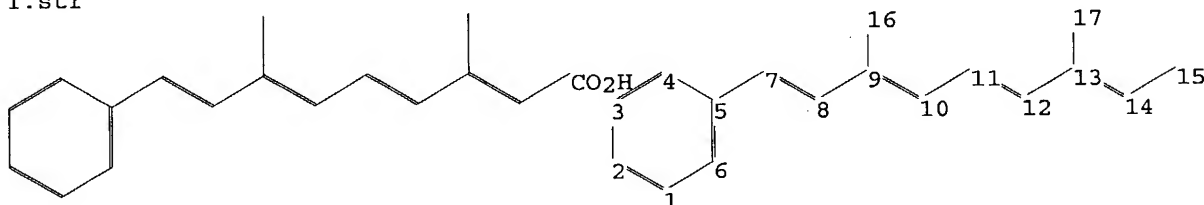
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when  
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
 information enter HELP PROP at an arrow prompt in the file or refer  
 to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>  
 Uploading C:\Examination Auxillary files\10025947\10025947 RCE II first action  
 1.str



chain nodes :  
 7 8 9 10 11 12 13 14 15 16 17  
 ring nodes :  
 1 2 3 4 5 6  
 chain bonds :  
 5-7 7-8 8-9 9-10 9-16 10-11 11-12 12-13 13-14 13-17 14-15  
 ring bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6  
 exact bonds :  
 5-7 7-8 8-9 9-10 9-16 10-11 11-12 12-13 13-14 13-17 14-15  
 normalized bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6

Match level :  
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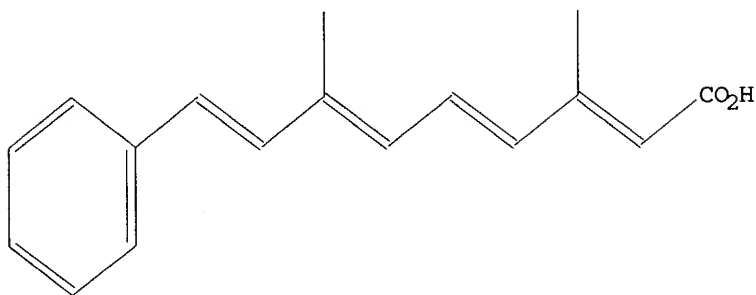
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS

L3 STRUCTURE UPLOADED

=> d l3

L3 HAS NO ANSWERS

L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l3 exact full

FULL SEARCH INITIATED 11:51:37 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 10 TO ITERATE

100.0% PROCESSED 10 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

L4 2 SEA EXA FUL L3

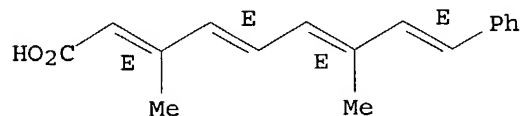
=> d scan

L4 2 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN 2,4,6,8-Nonatetraenoic acid, 3,7-dimethyl-9-phenyl-, (2E,4E,6E,8E) - (9CI)

MF C17 H18 O2

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

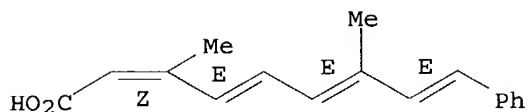
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L4 2 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN 2,4,6,8-Nonatetraenoic acid, 3,7-dimethyl-9-phenyl-, (Z,E,E,E) - (9CI)

MF C17 H18 O2

Double bond geometry as shown.



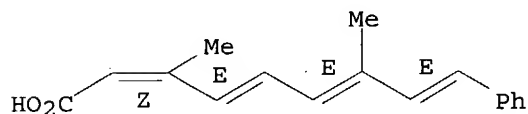
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> d 14 1-2

L4 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 87480-41-9 REGISTRY  
 CN 2,4,6,8-Nonatetraenoic acid, 3,7-dimethyl-9-phenyl-, (Z,E,E,E)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C17 H18 O2  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS  
 (\*File contains numerically searchable property data)

Double bond geometry as shown.

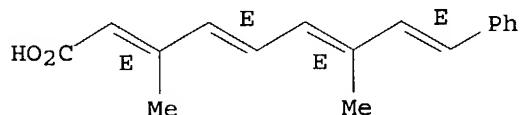


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 55079-84-0 REGISTRY  
 CN 2,4,6,8-Nonatetraenoic acid, 3,7-dimethyl-9-phenyl-, (2E,4E,6E,8E)- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 2,4,6,8-Nonatetraenoic acid, 3,7-dimethyl-9-phenyl-, (all-E)-  
 OTHER NAMES:  
 CN Ro 8-8717  
 FS STEREOSEARCH  
 MF C17 H18 O2  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, DDFU, DRUGU, EMBASE, RTECS\*, TOXCENTER  
 (\*File contains numerically searchable property data)

Double bond geometry as shown.



**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\***

36 REFERENCES IN FILE CA (1907 TO DATE)  
36 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
57.47	67.72

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-0.69

CA SUBSCRIBER PRICE

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FILE COVERS 1907 - 17 Mar 2004 VOL 140 ISS 12  
FILE LAST UPDATED: 16 Mar 2004 (20040316/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l4

L5 38 L4

=> l4/thu

38 L4  
578431 THU/RL  
L6 2 L4/THU  
(L4 (L) THU/RL)

=> d l6 1-2 ti fbib abs

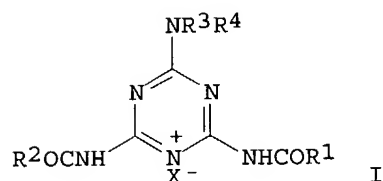
L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Structure-activity relationship studies of retinoid cancer inhibition  
AN 1993:530925 CAPLUS  
DN 119:130925  
TI Structure-activity relationship studies of retinoid cancer inhibition  
AU Jaeger, E. P.; Jurs, P. C.; Stouch, T. R.  
CS Sterling Winthrop Pharm. Res. Div., Rensselaer, NY, 12144, USA  
SO European Journal of Medicinal Chemistry (1993), 28(4), 275-290  
CODEN: EJMCA5; ISSN: 0223-5234  
DT Journal  
LA English  
AB The structure-activity relationships (SAR) of 152 retinoid compds. are described for the in vitro biol. activity that correlates with cancer prophylaxis efficiency. Multivariate anal. with 18 mol. features was used to evaluate an SAR system that correctly classified 94% of the 152

structures. Prospective studies correctly predicted the biol. activities of 17 of 19 new compds. (89%).

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN  
 TI Substituted pyrimidine oxides useful for hair growth promotion  
 AN 1986:429791 CAPLUS  
 DN 105:29791  
 TI Substituted pyrimidine oxides useful for hair growth promotion  
 IN Bazzano, Gail Sansone  
 PA USA  
 SO PCT Int. Appl., 58 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 8600616	A1	19860130	WO 1985-US1329	19850715
	W: JP, US				
	RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
				US 1984-630639	19840713
				US 1985-727357	19850425
	EP 187854	A1	19860723	EP 1985-903903	19850715
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
				US 1984-630639	19840713
				US 1985-727357	19850425

GI



AB Pyrimidine oxides I (R1,R2 = alkoxy, alkoxy carbonyl; R3,R4 = H, alkyl, C3-8 alkenyl, C3-8 cycloalkyl, phenyl-C1-3-alkyl; NR3R4 = 1-pyrrolidinyl, 1-tetrahydropyridyl, 3-pyrrolidyl, aziridinyl, azetidyl, piperidino, hexahydroazepinyl, heptamethylenimino, octamethylenimino, thiomorpholino, morpholino, 4-alkylpiperazinyl and optionally substituted by 1-3 alkyl groups; X = O, OSO3) are useful for increasing the rate of hair growth and prolonging the anagen phase of the hair cycle. Also, I are peripheral vasodilators. I have improved solubility, improved stability through increased dispersion of charge, longer action, excellent penetration of skin due to lipophilic substituents, compatibility with nonpolar solvents, and can be encapsulated within a syneresis-free hydrophobic polymeric network. I are used in combination with retinoids and/or prostacyclin analogs. Several I were prepared by treating a 2,6-diaminopyrimidine oxide with an Et oxalyl halide or an alkyl haloformate and optionally reacting the resultant compound with pyridine. SO3 complex or Et3N·SO3. I are encapsulated by dissolving or dispersing I in the monomer mix and in-situ polymerized I (R1,R2 = Et, NR3R4 = pyrrolidinyl, X = O) (II) at 60 µg/kg on the heads of hypotrichotic rats increased microvascular perfusion by 60% at 24 h. I, as s.c. implants, were shown to decrease hair loss and prolong the anagen phase of the hair cycle using a rodent model of androgenetic alopecia. Thus, a cream conditioner for topical administration contained all-trans-retinoid acid (entrapped in polymeric beadlets) 1.0, II (entrapped in polymeric beadlets) 10.0, cetrimonium chloride 5.0, cetyl alc. 4.0, EtOH 4.0, butylated hydroxytoluene 1.0, hydrolyzed animal

protein 0.5, methylparaben and propylparaben 0.1, stabilizer 0.1, and H2O to 100% by weight

=> d 15 28-38 ti

- L5 ANSWER 28 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Structure-activity relationships of retinoids in hamster tracheal organ culture
- L5 ANSWER 29 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Stimulation of melanogenesis in a human melanoma cell line by retinoids
- L5 ANSWER 30 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Retinoids specifically enhance the number of epidermal growth factor receptors
- L5 ANSWER 31 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Relationships among retinoid structure, inhibition of growth, and cellular retinoic acid-binding protein in cultured S91 melanoma cells
- L5 ANSWER 32 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Relationship between binding affinities to cellular retinoic acid-binding protein and in vivo and in vitro properties for 18 retinoids
- L5 ANSWER 33 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Possible role of retinoic acid binding protein in retinoid stimulation of embryonal carcinoma cell differentiation
- L5 ANSWER 34 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Retinoid-induced adhesion in cultured, transformed mouse fibroblasts
- L5 ANSWER 35 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Determination of binding affinities of retinoids to retinoic acid-binding protein and serum albumin
- L5 ANSWER 36 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Mediation of retinoic acid-induced growth and antitumor activity
- L5 ANSWER 37 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Evaluation of vitamin A analogs in modulating epithelial differentiation of 13-day chick embryo metatarsal skin explants
- L5 ANSWER 38 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Activity of vitamin A analogs in cell cultures of mouse epidermis and organ cultures of hamster trachea

=> d 15 36 ti fbib abs

- L5 ANSWER 36 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Mediation of retinoic acid-induced growth and antitumor activity  
AN 1976:403012 CAPLUS  
DN 85:3012  
TI Mediation of retinoic acid-induced growth and antitumor activity  
AU Chytil, Frank; Ong, David E.  
CS Dep. Biochem. Med., Vanderbilt Univ., Nashville, TN, USA  
SO Nature (London, United Kingdom) (1976), 260(5546), 49-51  
CODEN: NATUAS; ISSN: 0028-0836  
DT Journal  
LA English  
AB Cellular binding protein for retinoic acid (I) was detected in exts. of newborn mouse skin and hamster trachea. The level of I-binding protein was high in mouse skin paprillomas compared with control skin of

age-matched mice, 860 and 56 pmole I bound per g wet tissue. In addition, I analogs inhibited the binding of I to the protein, e.g., 100% inhibition by the dimethylacetylcyclopentenyl analog. The binding protein may thus be mediated by the mitogenic and antitumor actions of I. Possible uses of the protein are suggested; e.g., evaluation of the potential growth and antitumor activity of retinol or I analogs.

=> d 15 30 ti fbib abs

L5 ANSWER 30 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Retinoids specifically enhance the number of epidermal growth factor receptors  
AN 1980:461889 CAPLUS  
DN 93:61889  
TI Retinoids specifically enhance the number of epidermal growth factor receptors  
AU Jetten, Anton M.  
CS Lab. Exp. Pathol., Natl. Cancer Inst., Bethesda, MD, 20205, USA  
SO Nature (London, United Kingdom) (1980), 284(5757), 626-9  
CODEN: NATUAS; ISSN: 0028-0836  
DT Journal  
LA English  
AB Retinoic acid [302-79-4] enhanced the binding of 125I-labeled epidermal growth factor (I) [62229-50-9] to its receptor on various fibroblastic and epidermal cell lines. Retinoic acid had no effect on the affinity of I for its receptor, but increased the number of I receptor sites. Retinoic acid had little effect on the binding of concanavalin A and insulin, showing the specific nature of the action of retinoids on cell-surface glycoproteins. Treatment of cells with the phorbol ester, 12-O-tetradecanoyl phorbol 13-acetate [16561-29-8], and retinoic acid showed poor antagonism between these compds. on I binding. I binding may be useful as a marker to monitor retinoid-induced differentiation of embryonal carcinoma cells.

=> d 15 17-27 ti

L5 ANSWER 17 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Retinoic acid inhibits junctional communication between animal cells  
  
L5 ANSWER 18 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Substituted pyrimidine oxides useful for hair growth promotion  
  
L5 ANSWER 19 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN  
TI QSAR application in chemical carcinogenesis. II. QSAR analysis of a class of carcinogenesis inhibitor: retinoids  
  
L5 ANSWER 20 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Retinoids and carotenoids, II. Synthesis of (13Z)-retinoic acids  
  
L5 ANSWER 21 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Use of retinoids and minoxidil (2,4-diamino-6-piperidinopyrimidine 3-oxide) to increase the rate of growth of human scalp hair and to treat certain types of alopecias  
  
L5 ANSWER 22 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN  
TI  $\alpha$ -Pyrone and production of polyenecarboxylic acids  
  
L5 ANSWER 23 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Inhibitory effects of different retinoids (vitamin A analogs) on the stimulated rat liver guanylate cyclase activity  
  
L5 ANSWER 24 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

TI    Reactivity of vitamin A derivatives and analogs with vitamin A antibodies

L5    ANSWER 25 OF 38    CAPLUS    COPYRIGHT 2004 ACS on STN

TI    Characterization of retinoic acid-induced alterations in the proliferation and differentiation of a murine and a human melanoma cell line in culture

L5    ANSWER 26 OF 38    CAPLUS    COPYRIGHT 2004 ACS on STN

TI    Enhancement of melanotic expression in cultured mouse melanoma cells by retinoids

L5    ANSWER 27 OF 38    CAPLUS    COPYRIGHT 2004 ACS on STN

TI    Retinoic acid-induced modifications in the growth and cell surface components of a human carcinoma (HeLa) cell line

=> save templ 15 retinoid/a  
 'RETINOID/A' IS NOT VALID HERE  
 For an explanation, enter "HELP SAVE".

=> save temp 15 retinoid/a  
 ANSWER SET L5 HAS BEEN SAVED AS 'RETINOID/A'

=> logoff hold		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	25.48	93.20
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.77	-3.46

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 STN INTERNATIONAL SESSION SUSPENDED AT 12:02:52 ON 17 MAR 2004